

SCOTT E. ROUSE, P.E.

Fink Roberts & Petrie, Inc.

Vice President & Senior Project Manager, Structural

Responsibilities

Mr. Rouse has been in the continual practice of structural engineering since 1981, and with Fink Roberts & Petrie, Inc. since January 1991. His experience includes mid-to high-rise structures in various seismic zones. Types of projects, include hotels, city, county, state and federal government buildings, parking structures, educational facilities, athletic facilities, churches, retail, evaluations of existing structures, industrial facilities, and commercial offices for bid and for design/build. He has attended seminars which include current seismic design provisions by the International Conference of Building Officials, the American Society of Civil Engineers National Structures Congress in 1985, 1987, and 1991 and the National Steel Construction Conference in 1997.

Mr. Rouse's areas of specialization include architecturally significant projects, fast-track design, lateral (wind and seismic) analysis of complex structures, structural cost optimization, seismic detailing for high risk zones, constructability structural/architectural systems interaction, LEED Certified Buildings and design build projects.

Mr. Rouse is an alumnus of the Stanley K. Lacy Leadership Program and has been featured as a guest speaker on the design build process at the Civil Engineering Professional Development Seminar and the graduate level Structures Seminar at Purdue University.

Relevant Experience

Affiliations

Member American Society of Civil Engineers
Member American Concrete Institute
Member American Institute of Steel Construction

Education

Purdue University
BSCE 1980, MSCE 1981
Phi Eta Sigma Freshman Engineering Honor Society
Chi Epsilon Civil Engineering Honor Society
Tony Clarke Scholastic Award

Registration

Indiana #910258 North Carolina #11981
Kentucky #19029 Pennsylvania #056443-E

* Work while with another firm.

Project Awards

Indianapolis Downtown, Inc. Monumental Awards Honor Awards - 1999 Conseco Fieldhouse	AISC National Award of Engineering Excellence – 1997 Circle Centre
Consulting Engineers of Indiana Honor Award – 1997 Victory Field Ballpark	ACI Indiana Chapter Outstanding Achievement in Concrete - 1998 World Wonders Parking Structure
Consulting Engineers of Indiana Honor Award - 1996 Circle Centre	Indianapolis Downtown, Inc. Monumental Awards Grand Prize - 1995 Circle Centre
PCI National Design Award - 1986 Charlotte Mecklenburg City-County Parking Structure	Indianapolis Downtown, Inc. Monumental Awards Grand Prize 2002 Indiana State Museum

Relevant Experience

Clarian Medical Office Building
Two story structural steel frame and load bearing wall panels.
Design Build
Indianapolis, IN

Juniata College von Liebig Science
(75,000 sq. ft.) Three-story structural steel classroom and science lab building.
Huntingdon, PA

Holiday Inn
Peer Review of 8-story hotel facility.
Lafayette, IN

Murray State University
New Science Complex Phase I (65,000 sq ft).
Three-story cast-in-place concrete classroom and biology lab building. Seismic Design Category D. Special Ductile Moment Frame
Murray, KY

Proposed Law Office Building
Feasibility study for 17 story mixed office and parking structure
Indianapolis, IN

Marriott City Center Hotel
Lateral analysis of 20-story reinforced concrete downtown hotel
Indianapolis, IN

Victory Field "AAA" Ballpark
Design of steel superstructure 13,000 seat baseball stadium
Indianapolis, IN

Hanover College Science Building
120,000 sq.ft. (90,000 sq.ft. new, 30,000 sq.ft. renovation) structural steel frame
Hanover, IN

World Wonders Parking Structure
8-level, 1520-car, precast parking structure

White Chapel
200 seat chapel with arched frames on Rose Hulman Institute of Technology Campus. Structural steel design.
Terre Haute, IN

Columbus Learning Center
130,000 square foot educational facility. Two-stories, mixed concrete and steel construction
Columbus, IN

Market Square Arena
Analysis of domed arena roof for demolition contractor.
Indianapolis, IN

St. Mary's College
Faculty classroom and office building (75,000 sq ft). Four-story structural steel classroom building. Design Development.
Notre Dame, IN

The Indiana State Museum
(235,000 sq. ft.) Square footage includes exhibition and high-density storage space. Two separate buildings connected by a historically recreated Whipple truss pedestrian bridge. Large atrium spaces feature exposed structural steel.
Indianapolis, IN

Indianapolis Motor Speedway Control Tower
Structural steel design
Indianapolis, IN

Conseco Fieldhouse
Design of 18,500 seat NBA basketball arena for Indiana Pacers
Indianapolis, IN

Rose-Hulman Institute of Technology Sports and Recreation Center
Project Manager for multi-level athletic facility including fieldhouse, gymnasium, natatorium and administrative space. 150,000 sq.ft. fast-track schedule
Terre Haute, IN

L.S. Ayres Building
Evaluation of existing 1920's 11-story

design/build, fast track
Indianapolis, IN

building for lateral loads
Indianapolis, IN

Circle Centre
4-story structural steel retail facility on underground concrete parking structure (756,000 sq.ft.); preliminary analysis for proposed 22-story office building on concrete parking structure; and proposed 12-story hotel facility; lateral analysis for foundation loads, schematic framing design and conceptualization of lateral system (zone 1 seismic); final design and project manager.
Indianapolis, IN

Murray State University
New Science Complex Phase II (65,000 sq. ft.) Two-story cast-in-place concrete frame and connector tower for chemistry labs. Seismic Design Category D. Special Ductile Moment Frame.
Murray, KY

City of Charleston Parking Buildings
2 parking structures of precast concrete with approximately 1300 spaces total. Design build, fast track.
Charleston, WV

Hanover College Sports and Recreation Facility
Complete design of multi-level sports facility including gymnasium and multi-purpose sports forum with administrative space. 106,000 sq.ft.
Hanover, IN

Circle Block Excavation & Renovation
Conceptual Design for historic facade support and selective demolition of Goodman Quad buildings (c. 1898-1911) to be incorporated into Circle Block and Circle Centre project; Sheeting, shoring, and excavation package.
Indianapolis, IN

Hunt Construction Corporate Office Building 2-story structural steel frame, 31,000 sq.ft.
Indianapolis, IN

Robertson Hall Addition-Butler University
6,000 sq. ft. addition and incorporation of monumental stair in existing building
Indianapolis, IN

Liberal Arts Classroom Building-University of Southern Indiana
4-story, 106,000 sq.ft. reinforced concrete structure (Zone 2 Seismic, semi-ductile frame)
Evansville, IN

LaSalle Bank
Structural steel branch bank
Chicago, IL

41 East Washington Building Evaluation and Renovation
Evaluation of existing concrete frame constructed in 1920's.
Indianapolis, IN

Fort Knox Close Combat Tactical Training Facility
Foundation design for pre-engineered facility.
Fort Knox, KY

State Road 62 Bridge
Seismic Analysis
Evansville, IN

Westwood Residence

Rose-Hulman Institute of Technology

Addition and renovation to Purdue University
President's residence.
West Lafayette, IN

IPL Corporate Headquarters Renovation
Concrete frame constructed in 1920's.
Indianapolis, IN

Plymouth Elementary School
Lateral analysis and detailing of bar joist
system on structural steel for wind loads (one
story) 81,000 sq. ft.
Plymouth, IN

Butler University Recreation/Fitness Center
Design Development of mixed timber and
structural steel frame for swimming pool,
gymnasium weight room and administration,
94,000 sq.ft.
Indianapolis, IN

Bank One Structural Evaluation & Spandrel
Beam Replacement
Evaluation and repair specification for
deteriorated concrete spandrel beams of
parking garage.
Lafayette, IN

Pfizer Industrial Facility
Lateral analysis and detailing for 2-story
industrial facility addition for Zone 2 seismic
criteria.
Terre Haute, IN

*Southwest Middle School
Steel joists, load bearing masonry
Guilford County, NC

*Wake Forest Law School
Structural steel lateral analysis for rotunda
framing
Winston-Salem, NC

*HQ Warehouse Retail Facility
Steel joists on structural steel frame
conversion of prototype for two specific sites;
45,000 sq. ft. each

Residence Hall
4-story precast hollow core floor system
on load bearing masonry
Design Development
Terre Haute, IN

Indiana University Jordan Hall Mezzanine
Addition
Added structural steel mezzanine to
existing building.
Bloomington, IN

California Motor Speedway
Foundation design for pre-engineered
buildings at major motor speedway.
Ontario, CA

Rose Hulman Institute of Technology
Olin Hall Classroom Addition
2 level addition to existing building
(18,000 sq. ft.)
precast floor system on load bearing
masonry.
Terre Haute, IN

Showers Building Renovation
200,000 sq. ft. warehouse structural
capacity evaluation (timber construction,
c. 1910).
Bloomington, IN

First Christian Church
270 seat- timber framing with masonry
shearwalls; complete analysis and design
for zone 2 seismic
Robinson, IL

*Glennaire Retirement Community
Structural steel lateral analysis of
Community Center
Cary, NC

*HQ Warehouse Retail Facility
Steel joist on structural steel frame
conversion of prototype for two specific
sites; 45,000 sq.ft. each
Cincinnati, OH

*Riverpark Performing Arts Center -
Structural steel and load bearing masonry;
column design
Owensboro, KY

Memphis, TN

*200 Meeting St. Office Building
4-story concrete semi-ductile moment frame;
spec offices; complete analysis and design for
zone 2 seismic criteria by response spectrum
analysis; design build; fast track
Charleston, SC

*Charles River Labs Crate Making Facility
Steel bar joists on load bearing masonry;
10,000 sq. ft.
Research Triangle, NC

*First Union Bank Park Plaza
65' span x 100' long structural steel
cylindrical barrel vault atrium 3-D space
frame analysis of steel arches on STRUDEL
software
Charlotte, NC

*Morgantown Parking Facility
450 space precast concrete; 6 levels
Morgantown, WV

*Weinstein and Sturgis Law Building
5-story structural steel office building
Charlotte, NC

*Charlotte-Mecklenburg City-County
Government Center
Granite cladding evaluation
Charlotte, NC

*Mecklenburg County Criminal Courts
Facility
4-story concrete; 160,000 sq. ft.
Charlotte, NC

*General Services Admin, Grove Arcade
4-story mixed concrete and steel frame;
evaluation of existing structure (C. 1920) for
proposed occupancy change
Asheville, NC

*Charlotte-Mecklenburg City-County
Government Center 14-story reinf. concrete;
480,000 sq. ft. triangular shape, 4-story
atrium

*First Baptist Church
5,000 seat 2-tier balcony structural steel;
complete analysis and design for zone 2
seismic criteria by response spectrum
analysis
Columbia, SC

*State of North Carolina New Department
of Revenue Building
6-story reinforced and post-tensioned
concrete office and high density storage
facility; 340,000 sq. ft.
Raleigh, NC

*Cabarrus County Government Center
2 level concrete parking structure
supporting 4-story steel office building;
270,000 sq.ft.
Concord, NC

*Okuma Machine Tools
Structural steel industrial mill; additional
crane loads on existing frame
Charlotte, NC

*Appalachian State University College of
Business
5-story structural steel educational facility
Boone, NC

*Mecklenburg County Intake Center
Underground concrete structure for
prisoner processing
Charlotte, NC

*IBM Office
Concrete pan joist-floor load survey
Charlotte, NC

*Square D Additional Cranes
Steel mill structure; analysis for additional
cranes
Monroe, NC

*S&D Corporate Office
2-story structural steel
Concord, NC

Charlotte, NC

*Charlotte-Mecklenburg City-County Center
1,100 space parking structure; precast - 5
levels
Charlotte, NC

*Duke Power Company Oconee Station
Auxilliary Building
Dynamic response analysis of structural
floors subject to falling block walls
Seneca, SC

Southeast Regional Treatment Center
Complete renovation of Indiana State
Hospital Campus built around 1910. Wood,
steel, and brick masonry structures were
reinforced to meet new design criteria.
Specifications for new materials were
developed to meet the U.S. Green Buildings
Council LEED (Leadership in Energy and
Environmental Design) Certification Program
Madison, IN

Isaac Ray Treatment Center
New 115,000 s.f. Indiana State Hospital
Forensic and Developmentally Disabled
Facility. Load bearing masonry and
structural steel. Material Specifications were
developed to meet the U.S. Green Buildings
Council LEED Certification Program.
(Leadership in energy and Environmental
Design)
Logansport, IN

Hanover College Residence Hall
Load bearing masonry and wood floor
framing residential facility.
Hanover, IN

Indiana State Police and Department of
Health Forensic Labs
3-level cast-in-place concrete structure with
heavy emphasis on vibration criteria.
Specified to meet LEED Certification.
183,000 sq. ft.
Indianapolis, IN

*Duke Power Company Computer Center
Lateral analysis for braced structural steel
- 12 story
Charlotte, NC

*Duke Power Company, Oconee
Radwaste Facility
Reinforced concrete and structural steel
radiation waste facility
Seneca, SC

Hanover College Classic Hall Renovation
Renovation of Classroom building built in
the 1940's. Reinforcement of brick
masonry, bearing walls and steel joist
floor systems.
Hanover, IN

Hanover College Fraternity House
Load bearing masonry and precast
concrete dormitory.
Hanover, IN

Columbus Learning Center
Two level academic classroom and office
facility with auditorium. Building has a
curved spine with architecturally exposed
structural elements in steel and concrete,
120,000 s.f.
Columbus, IN

New Indianapolis Airport Midfield
Terminal
Project Manager for Terminal structure,
Concourses and Pedestrian Bridge
Components of Indianapolis International
Airport. Approximately 12,000 tons of
structural steel and over 1,000,000 sq. ft.
long span structural steel architecturally
exposed roof trusses. LEED Certification.
Indianapolis, IN

